INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG2004/000320

				PCT/SG2004/	000320	
Α.	CLASSIFICATION OF SUBJECT MAT	TER				
nt. Cl. ⁷ ;	H04L 9/14					
According to	International Patent Classification (IPC)	or to both n	ational classification and IPC			
	FIELDS SEARCHED					
Minimum docu	mentation searched (classification system foll	lowed by cla	ssification symbols)			
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Ocumentation (searched other than minimum documentation	to the exter	nt that such documents are include	d in the fields search	ned	
	base consulted during the international search TO: CRYPTOGRAPHIC, KEY, PRI					
C.	DOCUMENTS CONSIDERED TO BE REL	EVANT				
Category*	Category* Citation of document, with indication, where appropriate, of the relevant passages					
Х	WO 2000/049768 A1 (MITTELHO Whole document	OLZER) 2	4 August 2000		1-19	
х	US 2002/0076042 A1 (SANDHU et al.) 20 June 2002 Whole document				15, 16, 19	
x	X US 5905799 A (GANESAN) 18 May 1999 Whole document				15, 16, 19	
					,	
F	urther documents are listed in the con	ntinuation	of Box C X See p	atent family ann	ex	
"A" docume	categories of cited documents: nt defining the general state of the art which is idered to be of particular relevance	co	er document published after the interm			
	international filing date or cannot be considered to involve an inventive step when the document is taken					
"L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be consider or which is cited to establish the publication date of another citation or other special reason (as specified) such documents, such combination being obvious to a person skilled in the combination of the special reason (as specified) such documents, such combination being obvious to a person skilled in the claimed invention cannot be considered.					one or more other	
"O" documer or other	ent referring to an oral disclosure, use, exhibition					
	nt published prior to the international filing date than the priority date claimed					
	nal completion of the international search		Date of mailing of the internatio	nal search report	2 2 NOV 2004	
9 November						
	ing address of the ISA/AU		Authorized officer			
PO BOX 200, 1	PATENT OFFICE WODEN ACT 2606, AUSTRALIA		SUSHIL AGGARWAL	:		
	: pct@ipaustralia.gov.au (02) 6285 3929	•	Telephone No: (02) 6283 21	92		
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Box No. II	No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)							
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:								
1.	Claims Nos.:							
1	because they relate to subject matter not required to be searched by this Authority, namely:							
	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:							
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)							
	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)							
This Interna See exti	tional Searching Authority found multiple inventions in this international application, as follows:							
	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.							
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.							
	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:							
-								
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:							
Remark on	Protest The additional search fees were accompanied by the applicant's protest.							
	No protest accompanied the payment of additional search fees.							

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No:

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked to form a single general inventive concept. In coming to this conclusion, the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-14, 17 and 18 relate to cryptographically processing a message wherein the message is processed using a first partial cryptographic key corresponding to a decomposition of a private key, resulting in a first partially processed message, the message is processed using a second partial cryptographic key corresponding to the decomposition of the private key, resulting in a second partially processed message, the first partially processed message and the second partially processed message are combined resulting in a cryptographically processed message.
- 2. Claims 15, 16 and 19 relate to cryptographically processing a message wherein the message is processed using a partial cryptographic key corresponding to a decomposition of a private key, resulting in a partially processed message.

The above groups of inventions are no so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which defines a contribution over the prior art. The common concept linking together these groups of claims is processing a message using a partial cryptographic key corresponding to a decomposition of a private key. However this concept is not novel in the light of any of the following documents:

D1: WO 2000/049768 A1 (MITTELHOLZER) 24 August 2000 D2: US 2002/0076042 A1 (SANDHU et al.) 20 June 2002

D3: US 5905799 A (GANESAN) 18 May 1999

Consequently the common feature does not constitute a 'special technical feature' within the meaning of PCT Rule 13.2 since it makes no contribution over the prior art. Therefore, these claims lack unity, a posteriori.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/SG2004/000320

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	2000/049768	NONE			
US	2002/0076042	WO	2002/051062	•	
US	5905799	US	5588061		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX